

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/026349

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L25/02

According to international Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

(Minimum documentation searched (classification system followed by classification symbols))
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 02/05442 A (HARRIS CORP) 17 January 2002 (2002-01-17)</p> <p>figures 5,6,1112 page 6, line 10 - page 10, line 34 Channel estimation method for W-LAN system using spreading with short codes like the 11-chip Barker code. According to the length of the channel impulse response, multiple contiguous symbols are used</p> <p style="text-align: center;">-/-</p>	<p>1-11, 19-29, 37-47</p>

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

10 December 2004

Date of mailing of the international search report

29/12/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>TENG JOON LIM: "Bias in CDMA channel estimates with the use of short spreading sequences"</p> <p>IEEE, vol. 1, 6 September 2000 (2000-09-06), pages 288-291, XP010517569 page 288, column 2 Channel estimation method for systems using short spreading codes: A filtered correlated signal is further processed so as to remove the autocorrelation sidelobes of the short spreading code used.</p> <p>-----</p>	<p>1,12,19, 30,37,48</p>

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0205442	A	17-01-2002	US 6661857 B1 09-12-2003
		AU 7786001 A 21-01-2002	
		DE 10196416 T0 13-11-2003	
		JP 2004503171 T 29-01-2004	
		TW 513864 B 11-12-2002	
		WO 0205442 A2 17-01-2002	